

What is claimed is:

1. A method of acquiring an image, comprising:
  - defining a plurality of pixel areas, each said pixel area covering a specific optical area of a charge accumulating substrate;
  - configuring each of said plurality of pixel areas as a portion fo said substrate,
  - providing a photogate controlling a characteristic of said charge accumulating substrate;
  - providing a sensing node which senses charge in said sensing charge accumulating substrate; and
  - associating a readout circuit with each of said sensing nodes of each of said pixel areas, in a way that each said pixel area includes a dedicated readout circuit.

2. A method as in claim 1, wherein a circuitry portion of said pixel area includes circuitry therein, and further comprising a lens system, covering at least said circuitry portion, and refracting impinging radiation to an area of said photogate.